

## AMUSEMENT RIDE ASSEMBLY AND METHOD

### FIELD OF THE INVENTION

- 5 The present invention relates to an amusement ride assembly and method for passengers. In particular, although not exclusively, the invention may be employed for recreational purposes to provide an adrenalin ride.

### BACKGROUND TO THE INVENTION

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Various aerial cableway systems are known for transporting passengers and/or goods along long mountain terrains, over canyons and rivers, and through other areas where no runways, railways or similar structures can or may be constructed.

- 15 In one form of cableway system a fixed cable is suspended between two or more stationary towers or stations, and one or more vehicles, such as carriages, cabs, or cars, which travel along the cable via a roller suspension system. In a chair lift a system a cable is driven by pulleys or bull wheels in end towers or stations and moves chairs carried by the cable between the towers and stations. The individual chairs are fixedly  
20 attached to and suspended from the moving traction cable.

Recreational, adventure, and amusement rides utilising an aerial cableway system, such as flying foxes, are known. Typically, these rides depend for popularity upon a lengthy  
25 duration of brisk acceleration which quite often involves moving a passenger through bends and the like.

It is an object of the present invention to provide an alternative amusement ride assembly which at least provides a useful alternative.

## SUMMARY OF THE INVENTION

5 In accordance with an aspect of the present invention, there is provided an amusement ride assembly including: a rotatable endless loop cable spanning between end stations; a drive system operable to rotate the loop cable; and a passenger carrier suspended from the cable, including a roller mechanism to enable the passenger carrier to free-roll along the cable and an associated clamping mechanism to alternatively fix the passenger carrier to the cable.

10 In accordance with a further aspect of the present invention, there is provided a method of providing an amusement ride including the steps of: loading a passenger carrier with one or more passengers; allowing the passenger carrier to free-roll under gravity along a span of a loop cable from a position at or toward one station, toward another station; clamping the passenger carrier to the loop cable at a specific point intermediate of the distance between the two stations; and rotating the loop cable to move the passenger carrier further between the stations.

20 In accordance with a further aspect of the present invention, there is provided an amusement ride assembly including a cascade of two or more stages, each stage including: a rotatable endless loop cable spanning between two stations; and a drive system operable to rotate the loop cable, the ride further including: one or more passenger carriers, which can accommodate one or more passengers, attachable to the loop cables of each stage and a suspension member which suspends the passenger carrier(s) to the loop cables, wherein the suspension member includes a roller mechanism to enable the passenger carrier(s) to free-roll along the loop cables and a clamping mechanism which can be actuated to alternatively fix the passenger carrier(s) to the loop cables.

30 In accordance with a further aspect of the present invention, there is provided an amusement ride assembly including: a rotatable endless loop cable spanning between end stations; a drive system operable to rotate the loop cable; a passenger carrier suspended from the cable, including a roller mechanism to enable the passenger carrier

to free-roll along the cable and an associated clamping mechanism to alternatively fix the passenger carrier to the cable; and a control system arranged to allow the passenger carrier to free-roll part way along the cable after initial release of the passenger carrier at the commencement of a ride and to then actuate the clamping mechanism to fix the passenger carrier to the loop cable when the passenger carrier has slowed down to less than a predetermined speed.

This invention may also be said broadly to consist in the parts, elements and features referred to or indicated in the specification of the application, individually or collectively, and any or all combinations of any two or more said parts, elements or features, and where specific integers are mentioned herein which have known equivalents in the art to which this invention relates, such known equivalents are deemed to be incorporated herein as if individually set forth.

The invention consists in the foregoing and also envisages constructions of which the following gives examples only.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

Preferred embodiments of the invention are described with reference to the drawings and by way of example only, wherein:

Figure 1, shows a perspective view of the preferred embodiment amusement ride assembly, including a loop cable spanning between two stations and a passenger carrier which travels on the cable;

Figure 1a shows a plan view of a portion of a drive tower of the amusement ride assembly, including a portion of a cable tensioning system;

Figure 1b shows a plan view of a portion of a return tower of the amusement ride assembly, including a another portion of the cable tensioning system;

Figure 2 shows a front elevation view of the preferred embodiment passenger carrier loaded with passengers;

Figure 3 shows a side elevation view of the passenger carrier of Figure 2 suspended from a cable without passengers;

Figure 4 shows a side elevation view of a roller mechanism and a clamping mechanism of the passenger carrier;

5 Figure 5 shows a plan view of the clamping mechanism of the passenger carrier from direction A of Figure 4;

Figure 6 shows a rear end cross-sectional view of the clamping mechanism of the passenger carrier through line B of Figure 4;

10 Figure 7 shows a hydraulic circuit diagram of the preferred hydraulic system which actuates the clamping mechanism of the passenger carrier;

Figure 8 shows a schematic diagram of an alternative amusement ride assembly arrangement with more than two stations; and

Figure 9 shows another schematic diagram of an alternative amusement ride assembly which includes more than two stations.

## 15 DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring to Figure 1, the preferred embodiment amusement ride assembly 100 is used to provide an adventure or recreational ride for one or more passengers across a scenic  
20 valley or gorge.

The amusement ride assembly 100 includes a rotatable endless loop cable 101 suspended across a valley between two stations 102, 103. The ride assembly 100 includes a passenger carrier 104 suspended from the cable 101 which transports one or  
25 more passengers back and forth across the valley as it rides on the cable 101. The passenger carrier 104 includes a roller mechanism to enable the passenger carrier 104 to free-roll along the cable 101 and a clamping mechanism which is actuable to fix the passenger carrier 104 to the cable 101. The roller and clamping mechanisms will be explained in more detail below.

30 Once loaded with one or more passengers, the passenger carrier 104 can be released from a station so that it free-rolls along the cable 101 under the influence of gravity via

the roller mechanism of the passenger carrier 104, thereby providing an accelerating adrenalin ride for the passengers. Once the passenger carrier 104 comes to rest, or at some other point during the ride, the clamping mechanism of the passenger carrier 104 can be actuated to fix the passenger carrier 104 to the cable 101 which can be rotated  
5 appropriately to return the passenger carrier 104 to either station 102, 103.

In the preferred embodiment, the stations 102, 103 form anchor towers which are built into rock 105 or similar for support and are spaced apart, by for example 1 to 3 km. One station is the drive tower 102 where passengers are loaded and unloaded onto the  
10 passenger carrier 104 when it is docked. Typically, the drive tower 102 is provided with a canopy 106 to shelter people and equipment from the weather. The drive tower 102 also drives the rotation of the cable 101. The other station is the return tower 103.

The cable 101, which may be a 28mm diameter steel cable for example, is suspended  
15 between the towers 102, 103 by a drive system which is also operable to rotate the cable 101. In the preferred embodiment the cable 101 takes up shape which limits the cable tension under operating loads to approximately 0.1 times the ultimate strength of the cable 101, to provide a factor of safety of 10. The drive system consists of two 4m diameter bull wheels 107, 108, one located at each of the towers 102, 103, about which  
20 the cable 101 passes.

The bull wheel 107 of the drive tower 102 is coupled via a gearbox to a 30kW electric brake motor and a second 11kW electric motor is coupled to the gearbox to provide an emergency back-up drive. The 30kW electric drive system is operable to rotate the cable  
25 101 either clockwise or anticlockwise about the bull wheels 107,108 at variable speeds. Two generators, one of 80kW capacity and one of 30kW capacity, are provided to supply power to the drive system. The 80kW generator is the primary power source, while the 30kW generator is used to provide power to the 11kW back-up drive motor.

30 The bull wheel 107 of the drive tower 102 is fitted with a concentric braking ring onto which a hydraulically released scissor brake mechanism operates. If there is a failure in the hydraulics or power generators, an emergency brake will be initiated.

In the preferred embodiment, the towers 102, 103 are approximately level in elevation, and the tension on the suspended cable 101 ensures that the cable 101 has an arc or catenary so that the passenger carrier 104 can free-roll back and forth along the cable 101 under the influence of gravity. Generally, the passenger carrier 104 may attain speeds of up to 100kph as it free-rolls along the cable 101 through the 100m catenary of the cable 101, although the speed will ultimately depend on the loading of the passenger carrier 104. Further, because the towers 102, 103 are approximately level in elevation, it is impossible for the free-rolling passenger carrier 104 to crash into either tower 102,103 after being released. It will however be appreciated that the elevation of the towers 102,103 with respect to each other could be varied to provide different ride speeds.

The drive system includes a cable 101 tensioning system, for example powered by hydraulics or the like, which is arranged to move one or both of the bull wheels 107,108 radially either towards or away from the other (i.e. longitudinally) to enable the slack and ultimately the arc of the cable 101 to be adjusted according to the various operational and safety requirements of the ride assembly 100. For example, the arc of the cable 101 may be adjusted in accordance with the load of the passenger carrier 104, wind, expansion and contraction cable weather characteristics, or to provide different speed rides.

Referring to Figure 1a, the portion of the tensioning system 109 associated with bull wheel 107 of the drive tower 102 is shown. The tensioning system 109 is powered by hydraulics which can move the bull wheel 107 longitudinally, for example by up to 5m, between points 110 and 111. As mentioned, this enables the slack, and ultimately the arc of the cable 101 to be adjusted in accordance with various operating and weather factors. Similarly, referring to Figure 1b, the remainder of the tensioning system 112 associated with the bull wheel 108 of the return tower 103 is shown. This too is hydraulically powered and is operable to move the bull wheel 108 longitudinally between points 113, 114. It will be appreciated that the tension of the cable 101 could be adjusted by movement of either or both bull wheels 107,108.

Typically, the towers 102,103 and the drive system will sustain loads such as 13 tonne per cable length and a 26 tonne load of the bull wheels 107,108 and foundations. The cable tensions are typically maintained at 13 tonne maximum with the bull wheels 107,108 being longitudinally moveable by up to about 5 meters via the hydraulic tensioning mechanism(s) 109,112. This allows the cable 101 to take up a shape consistent with the 13 tonne load and the passenger carrier 104 load.

Referring to Figure 2, the passenger carrier 104 includes a base framework 200 and one or more passenger seats 201, each of which accommodates a passenger 202, mounted to or integrally formed with the base framework 200. In the preferred embodiment the passenger carrier unloaded weighs 500kg, with a maximum loaded weight of 1000kg. The passenger seats 201, which may be rally car seats or the like, include safety harnesses such as 5-point seatbelt restraints and/or an interlocking restraint in the form of a coil which wraps around seated passengers 202 to secure them in their seats. The interlocking restraint is preferably locked externally in a location which seated passengers cannot access for safety. The passenger carrier may also be fitted with cushioning or padding on surfaces which a passenger may come into contact with during the ride in normal operation.

Referring to Figure 3, the passenger carrier 104 is suspended from the cable 101 by a roller mechanism which is arranged to allow the passenger carrier 104 to free-roll along the cable 101. The roller mechanism typically includes three pairs of roller wheels 300 which roll along the cable 101. Each pair of roller wheels 300 are coupled by two substantially triangular side plates 301 and each wheel of the pair is rotatably connected between the plates 301 at points above the cable 101. The triangular side plates 301 of the rear pair of roller wheels 300 is pivotally connected below the cable 101 to a horizontal support member 303 at point 304, while the triangular side plates 301 of the two front pairs of roller wheels 300 are coupled to each other by a horizontal pivot member 305. The horizontal pivot member 305 is in turn pivotally connected at point 306 to the horizontal support member 303. The base frame 200 of the passenger carrier 104 is pivotally connected at point 307 to the horizontal support member 303. The pivoting arrangement at points 304, 306, and 307 enable the passenger carrier 104 to

pivot appropriately while riding on the cable 101 in accordance with the arc of the cable or due to other forces.

Referring to Figure 4, the passenger carrier 104 includes a clamping mechanism, generally indicated by 400, which is attached to the horizontal support member 303 between the two rear pairs of roller wheels 300. The clamping mechanism 400 includes a base 401 which is mounted above the horizontal support member 303 by spacer blocks 402. The clamping mechanism 400 is arranged to receive the cable 101 above the base 401 and may be actuated to fix the passenger carrier 104 to the cable 101. In the preferred embodiment, the clamping mechanism 400 is hydraulically powered.

Referring to Figure 5, the clamping mechanism 400 includes two rope clamp blocks 500 on each side of the cable 101 which may move back and forth toward or away from each other, as indicated by arrows B and C, to open and close the clamp respectively. When the clamping mechanism 400 is actuated to close the clamp, the rope clamp blocks 500 are moved together toward the cable 101 until they securely clamp the cable 101. To then open the clamp to release the cable 101, the rope clamp blocks are moved away from the cable 101 and each other.

Each rope clamp block 500 is coupled to two piston rods 501 which are arranged to move back and forth within double acting hydraulic cylinders 502. The hydraulic cylinders 502 are coupled to cylinder mounting blocks 503 which are connected to the top plate 504 of the base 401 of the clamping mechanism 400. The top plate 504 is also provided with plastic bearing strips 505 along which the rope clamp blocks 500 may slide. Adjacent the plastic bearing strips 505 are end guide blocks 506 mounted on the top plate 504 which guide the cable 101 between the rope clamp blocks 500. A clamp bridge block 507, mounted at each end to the top plate 504 by bridge blocks (not shown), is also provided above the cable 101 and rope clamp blocks 500 to guide the cable 101.

Referring to Figure 6, the top plate 504 of the base 401 is connected to a bottom plate 600 via side support webs 601 and side plates 602. A hydraulic pump unit 603 is

mounted within the base between the top 504, bottom 600 and side 602 plates. The hydraulic pump unit 603 is connected via hydraulic tubes (not shown) to the fluid inlet/outlet ports 604 of the hydraulic cylinders 502 and is operable to open and close the rope clamp blocks 500 as desired by causing the piston rods 501 to move  
5 appropriately.

Referring to Figure 7, the operation of the clamping mechanism 400 will be described in more detail. When the clamp is to be closed a control signal is sent to the hydraulic pump unit 603 to start an electric motor 700 to pump fluid from a self-contained  
10 reservoir within the hydraulic pump 603, via fluid line D, into chambers 701 of the hydraulic cylinders 502. As the chambers 701 pressurise, the piston rods 501 move out of the cylinders 502 to close the rope clamp blocks 500 on the cable 101 to prevent relative movement between the passenger carrier 104 and the cable 101. During this process the fluid in chambers 702 of the cylinders 502 is forced into the hydraulic pump  
15 unit 603 via fluid line E. Once the desired pressure is reached, for example 1500psi (10342 KPa), an electrical signal is sent from a pressure switch 703 to turn off the electric motor 700. An accumulator 704 is connected to fluid line D to maintain a constant minimum pressure within the line, for example 1000psi (6895 KPa).

20 When the clamp is to be opened, a control signal is sent to the hydraulic pump unit 603 to start the electric motor 700 in the reverse direction to pump fluid into chambers 702 of the cylinders 502 via fluid line E for a set period of time, for example 3 seconds. As chambers 702 pressurise, the piston rods 501 withdraw into the cylinders 502 thereby opening the clamp by moving the rope clamp blocks 500 away from the cable 101. At  
25 the end of the 3 seconds the electric motor 700 of the hydraulic pump unit is turned off.

The amusement ride assembly 100 may include an electronic and/or computer based control system, for example comprising a number of programmable logic controllers (PLCs), which controls the operation of the drive system, tensioning system, and the  
30 clamping mechanism 400 of the passenger carrier 104 in accordance with the type of ride to be provided. The control system may include one or more control modules which communicate via a radio link. In the preferred embodiment, the control system includes

station control modules located at the drive 102 and return 103 towers which control the drive system and tensioning system. For example, the drive station control module may control the speed and direction at which the cable 101 rotates. The station control modules also include scanning proximity sensors which determine the distance of the passenger carrier 104 from either of the towers 102, 103. It will be appreciated that the control modules may be located in a remote location distinct from either of the towers 102,103 also.

In the preferred embodiment, the control system also includes a passenger carrier control module located on the passenger carrier 104. Reverting to Figure 3, the passenger carrier control module may include a control box 308 mounted behind the passenger seats 201 of the passenger carrier 104. The control box 308 includes a radio receiver/transmitter, two-way communication intercom, rechargeable battery power supply, and other electronic control circuitry. The control box 308 powers the clamping mechanism 400 and in particular sends control signals to the hydraulic pump unit 603 to open and close the clamp.

The passenger carrier control module also preferably includes a number of sensors. First, proximity sensors are provided which determine the distance of the passenger carrier 104 from either of the towers 102, 103. Secondly, a distance measurement device associated with one pair of roller wheels 301 is provided to determine the distance travelled by the passenger carrier 104 along the cable 101. Thirdly, a speedometer associated with roller mechanism is provided which determines the speed of the passenger carrier 104 as it travels along the cable 101. Finally, clamp sensors associated with the clamping mechanism 400 are provided which indicate whether the clamp is fully open or closed. One or more of the above types of sensors could be provided. The passenger carrier 104 may also be provided with a control panel which displays the output of various sensors, for example speed and the status of the clamp. For safety, the control panel may also include a switch, button, or the like to enable manual actuation of the clamping mechanism 400 by a passenger.

The station control modules communicate via radio link with the passenger carrier control module. For example, the passenger carrier control module may send data to the station control modules containing the output from its various sensors, for example speed, distance travelled, clamp status, proximity sensor output etc. The station control  
5 module may then compare the passenger carrier data with the output from its own sensors and send control signals back to the passenger carrier control module to control the actuation of the clamping mechanism 400 as desired.

The control system may operate in an automatic mode or a manual mode. While in  
10 automatic mode, the control system operates the drive system, tensioning system, and clamping mechanism in accordance with preset programming to provide a particular ride. If however a fault is detected while in automatic mode, for example based on one of the sensors or if there is a discrepancy between the readings from the tower 102,103 and passenger carrier 104 proximity sensors or the like, the control system is switched  
15 to manual mode. In manual mode everything is under the control of an operator.

The amusement ride assembly 100 may be configured to provide a number of possible adventure or recreational rides for passengers ranging from a fast adrenaline ride to a slower scenic ride.

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In an adrenalin ride for example, passengers are loaded onto the passenger carrier 104 at the drive tower 102. At the start of the ride the loaded passenger carrier 104 is released from the drive tower 102 and allowed to free-roll along the cable 101, accelerating under the influence of gravity, toward the return tower 103. After the passenger carrier  
25 104 is released the control system actuates the drive system to rotate the cable 101 in the direction the passenger carrier 104 is traveling along the cable 101, for example the drive system may slowly accelerate the cable 101 up to a speed of 5m/s. Wind resistance, equipment friction, and the cable 101 arc will slow the passenger carrier 104 as it nears the return tower 103. When the speed of the passenger carrier 104 slows to  
30 substantially the same speed as the cable 101, or another predetermined speed, the control system sends a control signal to the passenger carrier control module to close the clamp. This ensures that that the actuation of the clamp is not likely to jerk the

passenger carrier 104. Once the clamp is fully closed the passenger carrier 104 is fixed to the moving cable 101 and is transported closer toward the return tower 103.

5 When the passenger carrier 104 is a certain distance from the return tower 103, for example 150m as determined by the proximity sensors and/or distance measuring device, the control system initiates a controlled deceleration of the cable 101. The speed of the cable 101 is then progressively slowed so that the passenger carrier 104 is brought to a gradual halt approximately 50m from the tower. The control system may then open the clamp, this time allowing the passenger carrier 104 to free-roll back along  
10 the cable 101 with the passengers' backs facing toward the direction of travel, under the influence of gravity, toward the drive tower 102. During this part of the ride the cable 101 is rotated in the opposite direction as it was previously, and as the passenger carrier 104 approaches the drive tower 102 the same clamping process as was utilised in the first part of the ride is initiated. This process may continue a number of times to provide  
15 the passengers with a number of gravity cable rides. At the end of the ride the clamp is closed and the cable 101 rotated to return the passenger carrier 104 to the drive tower 102 for unloading of passengers. It will be appreciated that the cable 101 does not have to be rotated while the passenger carrier 104 free-rolls along it.

20 In an alternative adrenalin ride, the passenger carrier 104 once loaded is released from the drive tower 102, and allowed to oscillate back and forth between the two towers 102, 103 on the cable 101 without actuation of the clamping mechanism 400. When the passenger carrier 104 comes to rest substantially in the middle of the cable 101, the clamping mechanism 400 is actuated and the cable 101 rotated to return the passenger  
25 carrier 104 to the drive tower 102 for unloading of passengers.

For a slower scenic ride, the amusement ride assembly 100 can be controlled to provide a chairlift type ride back and forth between the two towers 102, 103. For this ride, a loaded passenger carrier 104 is clamped to the loop cable 101, via the clamping  
30 mechanism 400, for the entire duration of the ride. The loaded passenger carrier 104 is transported from the drive tower 102 and across to the return tower 103 via the drive system which rotates the cable 101 and attached passenger carrier 104 in the appropriate

direction. Once the passenger carrier 104 reaches the return tower 103, the drive system rotates the cable 101 in the reverse direction to return the passenger carrier 104 to the drive tower 102 for unloading of passengers.

5 Partial or controlled actuation of the clamping mechanism 400 can be utilised to provide a ride which is a compromise between the full adrenaline gravity ride and the slower scenic ride, in terms of speed. For example, the passenger carrier 104 could initially be clamped to the cable 101 and moved away from the drive tower 102 by movement of the cable. Once the passenger carrier 104 has been moved a predetermined distance  
10 away from the drive tower 102, the clamping mechanism 400 could be released thereby enabling the passenger carrier 104 to free roll towards the return tower 103. This would result in a shorter free-roll distance than the first described adrenalin ride, thereby resulting in a lower velocity of the passenger carrier 104. Alternative methods of providing various rides can be derived using the amusement ride assembly 100. For  
15 example, it will be appreciated that various rides could be provided which comprise a combination of the above mentioned rides or other alternatives which involve different free-rolling and clamping combinations.

The amusement ride assembly 100 may also be altered to include additional features.  
20 For example the passenger carrier 104 could include a swivel mechanism which is arranged to rotate the passenger carrier 104 360° about a substantially vertical axis. This swivel mechanism may also be controlled remotely, for example by the control system, via the passenger carrier control module. Alternatively, or additionally, manual actuation and control of the swivel mechanism may be provided for passengers in the  
25 form of a switch, dial, button, knob or the like located on a passenger control panel. It may be desirable for the passenger carrier to be rotatable about an angle of about 180°, so that the passenger carrier 104 can face in the direction of travel, i.e. the passenger carrier 13 may be rotated 180° after the first free-roll ride toward the return tower 103 is complete, ready for a second ride back toward and facing the drive tower 102. Further,  
30 it may be that the swivel mechanism could constantly rotate the passenger carrier 104 during the entire ride to increase the adrenaline rush.

To increase safety, the ride assembly 100 may be provided with a rescue carrier which may travel on the cable 101 to the passenger carrier 104 should it be stranded for some reason, for example due to failure of the clamping mechanism 400. The rescue carrier could be self powered or may simply free-roll along the cable 101 via a roller mechanism. The rescue carrier could be attached to a winching system at one of the towers 102, 103 to enable retrieval.

The ride assembly 100 can be adapted to accommodate two passenger carriers operating simultaneously on opposite sides of the loop cable 101. Loading and unloading capability at the return tower 103 would be enabled to allow for this. The passenger carrier's loading capacity can be adapted to accommodate for this alternative arrangement also. For example, one 4-person passenger carrier could operate solely, or two 2-person passenger carriers simultaneously. Alternatively, the cable 101 could be arranged to enable larger or smaller passenger carriers to be used as desired. The passenger carriers may also be fully enclosed and the passengers may be seated back to back.

It will be appreciated that the amusement ride assembly is scalable, so can be expanded or reduced in size or scale to suit requirements. The addition of further stations, bull wheels, and other drive systems is included within the scope of the invention. The cable length may be altered according to requirements and it is not necessary that the stations be at the same height.

Referring to Figure 8, an alternative amusement ride assembly is shown comprising three cascaded stages, where each stage includes a rotatable endless loop cable 801, 802, 803 suspended between two stations 800. The arrangement also includes one or more passenger carriers 804 as described above riding on one or both sides of the cables 801, 802, 803. It will be appreciated that each station 800 may have a suitable drive system, for example drive bull wheels, to rotate the cables 801, 802, 803. The stations 800 may also have passenger loading/unloading capability. Further, each station 800 may have a transfer system which is arranged to transfer passenger carriers 804 between cables of adjacent stages so they can ride on each cable 801, 802, 803.

In an alternative arrangement, the cable sections 801, 802, 803 could be formed from one rotatable endless loop cable which is suspended between the end stations 805, 806 and is supported between these stations 805, 806 by intermediate stations 807, 808.

- 5 Referring to Figure 9, another alternative ride arrangement is shown, again comprising three stages, where each stage includes an endless rotatable loop cable 901, 902, 903 suspended between two stations 900 upon which one or more passenger carriers 904 ride. It will be appreciated that the cable sections 901, 902, 903 could be provided by one rotatable endless loop cable which is coupled to each of the stations 900 in an  
10 alternative arrangement.

It will be appreciated that the ride assembly 100 can be adapted for the transportation of heavy goods, such as tree-trunks, building material or the like in various locations, and would be provided with a goods carrier for this purpose.

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The foregoing description of the invention includes preferred forms thereof. Modifications and alternatives as would be obvious to those skilled in the art are intended to be incorporated in the scope hereof as defined in the accompanying claims.